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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/054,331	01/22/2002	Collin A. Rich	10989-006	4772	
7590 12/17/2003		•	EXAMINER		
Eric J. Sosenko BRINKS HOFER GILSON & LIONE			OEN, WII	OEN, WILLIAM L	
P.O. Box 10395	<del>-</del>	•	ART UNIT	PAPER NUMBER	
Chicago, IL 60610			2855		

DATE MAILED: 12/17/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/054,331	RICH ET AL.	
Office Action Summary	Examiner	Art Unit	
	William L Oen	2855	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet t	with the correspondence address	
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO  - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a  - If NO period for reply is specified above, the maximum statutory per  - Failure to reply within the set or extended period for reply will, by sta  - Any reply received by the Office later than three months after the m earned patent term adjustment. See 37 CFR 1.704(b).  Status	N. R 1.136(a). In no event, however, may a reply within the statutory minimum of thriod will apply and will expire SIX (6) Months at the cause the application to become	a reply be timely filed  nirty (30) days will be considered timely.  DNTHS from the mailing date of this communication.  ABANDONED (35 U.S.C. § 133).	
1) Responsive to communication(s) filed on 1	4 April 2003.		
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ T	his action is non-final.		
3) Since this application is in condition for allo closed in accordance with the practice under	wance except for formal ma er <i>Ex parte Quayle</i> , 1935 C	atters, prosecution as to the merits is D. 11, 453 O.G. 213.	
Disposition of Claims	• .		
4) ☐ Claim(s) 1-35 is/are pending in the applicat 4a) Of the above claim(s) is/are withe 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-35 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	drawn from consideration.		
Application Papers	·		
9) The specification is objected to by the Exam  10) The drawing(s) filed on is/are: a)  Applicant may not request that any objection to  Replacement drawing sheet(s) including the cor  11) The oath or declaration is objected to by the	accepted or b)  objected t the drawing(s) be held in abey rrection is required if the drawir	ance. See 37 CFR 1.85(a). ng(s) is objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. §§ 119 and 120			
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of:  1. Certified copies of the priority documed 2. Certified copies of the priority documed 3. Copies of the certified copies of the papplication from the International Butoward * See the attached detailed Office action for a since a specific reference was included in the 37 CFR 1.78.  a) The translation of the foreign language 14) Acknowledgment is made of a claim for domination of the foreign language 14) Acknowledgment is made of a claim for domination of the first sentence of the foreign language 14).	nents have been received. The priority documents have been received in priority documents have been reau (PCT Rule 17.2(a)). The priority under 35 U.S. the first sentence of the specific priority under 35 U.S. the provisional application has the settic priority under 35 U.S. th	Application No  en received in this National Stage  of received.  C. § 119(e) (to a provisional application) fication or in an Application Data Sheet.  been received.  C. §§ 120 and/or 121 since a specific	
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No.	) 5) Notice o	v Summary (PTO-413) Paper No(s) f Informal Patent Application (PTO-152)	

Art Unit: 2855

#### **DETAILED ACTION**

## Specification

The title of the invention is not descriptive in that only a *few* of the claims are directed to a *capacitive* type device. A new title is required that is clearly indicative of the invention to which the claims are directed.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* **v.** *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- . 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation

Application/Control Number: 10/054,331

Art Unit: 2855

under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1, 3-8, and 11-25, and 31-35 rejected under 35 U.S.C. 103(a) as being unpatentable over either Neukermans (U.S. Patent No. 6,068,589), Lesinski et al. '787 (U.S. Patent No. 5,531,787), or Lesinski et al. '859 (U.S. Patent No. 5,984,859), in view of either Zavracky (U.S. Patent No. 5,509,280), Mosser et al. (U.S. Patent No. 5,081,437), or Ugai et al. (U.S. Patent No. 5,2,59,248).

Neukermans, Lesinski et al. '787, and Lesinski et al. '859 each explicitly teaches all of the essential features of the claimed implantable micro-fabricated sensor device including a substrate with a sensor integrally formed thereon, and in turn a conductive path formed on the substrate and sensor, as well as active circuitry close to and electrically connected to the sensor. It is noted that Neukermans, Lesinski et al. '787, and Lesinski et al. '859 do not explicitly teach that the sensor is a cap layer formed of boron doped silicon. Zavracky, Mosser et al., and Ugai et al., in the same field of endeavor as Neukermans, Lesinski et al. '787, and Lesinski et al. '859, teach microfabricated sensors that do (at least *inherently*) teach devices wherein their respective sensors can be a cap layer formed of boron doped silicon. In view of the teaching by Zavracky, Mosser et al., or Ugai et al., it would have been obvious to one having ordinary skill in the art at the time of the invention to have formed in the implantable micro-fabricated sensor systems of either Neukermans, Lesinski et al. '787, or Lesinski

Art Unit: 2855

et al. '859, the sensor as a cap layer formed of boron doped silicon, if desired. This is further obvious because such a modification would be simple and expeditious. Further, capacitive type sensors are notoriously well known in the sensor micro-fabrication art.

Claims 2, 9, 10, and 26-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over either Neukermans (U.S. Patent No. 6,068,589), Lesinski et al. '787 (U.S. Patent No. 5,531,787), or Lesinski et al. '859 (U.S. Patent No. 5,984,859) in view of Zavracky (U.S. Patent No. 5,509,280).

Neukermans, Lesinski et al. '787, and Lesinski et al. '859 each explicitly teach all of the essential features of the claimed implantable micro-fabricated sensor device including a substrate with a sensor integrally formed thereon, a conductive path formed on the substrate and sensor, and active circuitry in proximity to and electrically connected to the sensor. It is noted that neither Neukermans, Lesinski et al. '787, nor Lesinski et al. '859 explicitly teach that the sensor is a capacitive type sensor, per se.

Zavracky, in the same field of endeavor as Neukermans, Lesinski et al. '787, and Lesinski et al. '859, however, does explicitly teach a micro-fabricated sensor that is operative as a capacitive type sensor (see, e.g., col. 10 of Zavracky). In view of this explicit teaching by Zavracky, and because it would involve but a simple & expedient substitution, it would have been obvious to one having ordinary skill in the art at the time of the invention to have formed the sensor of Neukermans, Lesinski et al. '787, or Lesinski et al. '859 as a capacitive type sensor, if desired.

Application/Control Number: 10/054,331 Page 5

Art Unit: 2855

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William L Oen whose telephone number is (703) 308-5161. The examiner can normally be reached on 10:30 am - 9:00 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Lefkowitz can be reached on 703-305-4816. The fax phone number for the organization where this application or proceeding is assigned is (703) 308-7722.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-4900.

William L Oen Primary Examiner Art Unit 2855

WL Oen 13 December 2003